# **Aviation Week**

Including Space Technology

75 Cents A McGraw-Hill Publicat

October 13, 1958

Two Engines Key To F4H-1 Design Giannini Studies Plasma Jet Uses





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GOOD YEAR AIRCRAFT EAYNAR MPC OD , INC - KAYLOCK DIVINON - House office & plant write New NO. (Brownell Armen, Los Angeles 54 Breach offers, resolvents and representation in Widole East Stee Verk H Y - Admin. Co. Grandon Steelester, Administration for Widole East Steel Verk H Y - Administration Steelester, Administration Administration for Management Steelester, Co. 2001, 1962.



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HAYTHEON MANUFACTURING COMPANY, WALIFARD, MARRIAGENARIA

### AVIATION CALENDAR

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# **Newest in the Cherry High Clinch Rivet Line**



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### CHERRY RIVET DIVISION SANTA ANA, CALIFORNIA

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# BAPID ACCESS- GOVE

IN ANALOG BATA DEBUCTION SYSTEMS







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Fax for Technical Bullatin TSG HYCON EASTERN, INC.

AVIATION CALENDAR



Avco/Crosley

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PACIFIC AUTOMATION PRODUCTS, INC







THE MACHAVOX COMPANY

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# "design simplicity"

New Steel Body, Miniature, Solenoid Operated Directional Control Values



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# RESEARCH

ENGINEERS, SCIENTISTS, NEEDED-Haves is an air-





# What You Should Know About This Symbol...

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### **Aviation Week** Vel 49, No. 15 Industry Space Technology

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# EDITORIAL

# A Fine Opportunity

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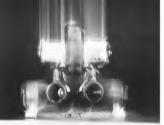
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# Federal Airport Program

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\*Qualification Report by Component Evaluation Euboratory, Inc., El Marke, California

# WHO'S WHERE INDUSTRY OBSERVER

In the Front Office

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# Washington Roundup

### ARMA M NASAZ

# Ouesada: Ahead of Schedule

### Defense Information

# Wait-and-See

### Contractor Data

### Air Force Counsel Mrs Golden will take once as expectal country of the

# Supplemental Raw

Space Agreements

# Soviets Plan Manned Orbit for Early '60

First U. S. attempt to place manned capsule into orbit may trail Soviet efforts by year or more. New Yost-doort Unon pubbly. Simuratation officels shorth before

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Improved Test Units Asked by Defense

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Convair Uses CL-44 as Basis For Early Warning Bid

# Bristol and Acrojet Form Joint Company New York-Assist General Corp.

# X-15 Rollout Set



# Sikorsky Building S-60 With Own Funds

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ANATION WEEK Owners 13, 1935



Pinnecki Flying Jeen Makes First Flight

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Ballistic Supply Missile Developed by Convair

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# New Posts Created in NASA Organization

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# Schweizer Builds 1-30 Lightplane

After 25 Years in Glider Market

Schweizer 1.30

# Peking Group Designs **Eight-Seat Transport**



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# Nuclear Rocket Facility Near Completion

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### Industry Rumbles As Germans Ready New Fighter Study Group

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AMERICAN BOSCH ARMA CORPORATION



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### AIR TRANSPORT

# Idlewild Rules May Affect 707 Economy

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# CAB Awards 4 Florida Routes

# National and Delta Cutback let Orders

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# Panagra Makes Subsidy Request; Fear of Latin Fare Battle Grows

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> Jet Runway Criteria Announced by CAA

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Pan American Defends Plan for let Lease Assort last neck description Feature











# Swissair Orders 880s, Leases to SAS

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European Impact



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# GREATER PROFIT POTENTIAL FOR SHORT-SECTOR. HIGH-FREQUENCY ROUTES



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Preved peculanty -- bug case-city ... Viscounts have boasted load factors

Dependable, accommend Solls-Revce power... four Rolls-Rance Durt of overhead roofs (TCA records 1900 hours, best envises to 2000) . . .

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Airline Traffic - August 1958

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builds up overhaul lifenow tops 1,600 hours Never before has an aero-engine proved an reliability so rapidly, so conclusively as the Bristol Proteur 705 turbo-prop.

The Protein first intered radius serve matherings. Yet shouly its kin between

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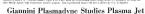
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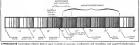
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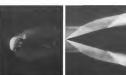
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# SPACE TECHNOLOGY



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# Applications



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# Redstone Ground Handling Equipment

Is Fruehauf-Designed and Fruehauf-Built

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# ROLLS-ROYCE DEVELOPMENTS

Low specific fuel consumption of the Tyne Pron-Jet

0.4 LB/T.E.H.P. HOUR

The specific fuel consumption of the initial production Rolls-Royce Tyne propriet engines will be 0-405 lb/t.e.b.p. hour cruising at 25,000 feet 370 kt. ISA, a figure comparable with the most highly developed piston engines.

Types scheduled for delivery in 1961 will have a speci-Fig. final consumption at 95,000 fast 370 kt ISA cruising of 0-388 lb/t,e.h.p. hour.

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ROLLS-POYCE LIMITED DEPRY PAGLAND AUGO CANADAS - ROMANO CARS - RESSE AND GASCARRI CANADAS - ROCKET MATERIA - ROCKER PROPERTIES

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SUPPLIES

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# AERONAUTICAL ENGINEERING



# Two Engine Concept Key to F4H-1 Design By Cong Lowis

M. Loris, No.-McDornell (1981) The new VicDonnell corner lighter

The tur of two engines is viewed as no dight controls although them is









The Auto-Lite engineers shown here are checking the thermal characteristics of dozens of different kinds of insulation materials. You can be sure that, no matter what the results, they won't be satisfied. That I as right on holder for other resterials that

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Engineering and research ofessions of Westinghouse trade 1001 invention disclosure—such representing an appropriate in just engine designs—dering 1005 and 1007. The number of inventions this year in keeping jone with persons years, powing that contrive engineering of Westinghouse instricting constantly lowered botter, more efficient jot prepulsion. Westinghouse, designer and builder of the first American purchet, now holds were then 105 118. engine A few of the Westinghouse "firsts" in the field include the exist flow compressor, into exhaust toucke, assolut combustion chamber and step wall combustion lines.

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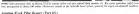
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Swedlow PLASTICS COMPANY





# 707 Imposes No Undue Stress on Pilot By Richard Sweezer with their dates and minimal, one at a light, and control effect in directed to

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Soon now TLbuilt and TL-modernized signort suppliffance radam will meet air travelers far outside concested airport mater U. S. apports. Able to keep take on large numbers of distant). TI radars will for all period moving objects over "ducks only" weather, the traffic controller can switch from linear to circular polarization for a clear look through clouds

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### 707 Leading Edge Flaps

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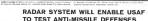


AVATON WEEK, Owners 13, 1999

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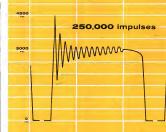
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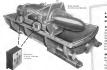
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